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U.S. Bureau of Foreign and Domestic Commerce

Glossary of electrical terms and instructions...

Washington

1928

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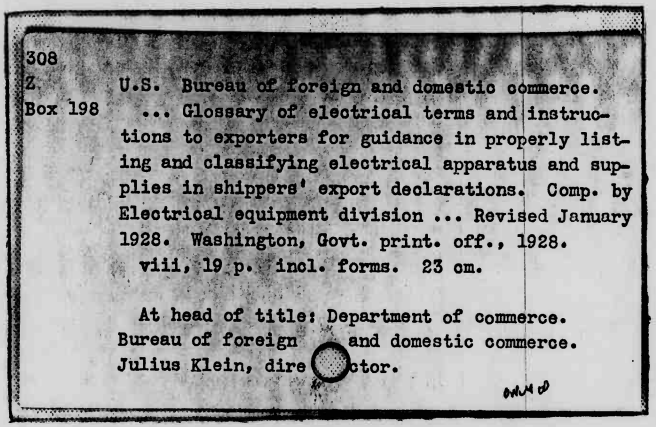

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U.S. Bureau of foreign and domestic commerce.
... Glossary of electrical terms and instructions to exporters for guidance in properly listing and classifying electrical apparatus and supplies in shippers' export declarations. Comp. by Electrical equipment division ... Revised January 1928. Washington, Govt. print. off., 1928.
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DEPARTMENT OF COMMERCE
BUREAU OF FOREIGN AND DOMESTIC COMMERCE
JULIUS KLEIN, Director

GLOSSARY OF ELECTRICAL TERMS AND INSTRUCTIONS TO EXPORTERS

FOR

GUIDANCE IN PROPERLY LISTING AND CLASSIFYING ELECTRICAL APPARATUS AND SUPPLIES IN SHIPPERS' EXPORT DECLARATIONS

COMPILED BY
ELECTRICAL EQUIPMENT DIVISION, BUREAU OF FOREIGN AND DOMESTIC COMMERCE

REVISED JANUARY 1928

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON
1928

FOREWORD

The following articles of customs regulations of the United States are quoted for the guidance of exporters:

"ART. 1127. *Compilation and publication.*—Statistics of imports and exports are compiled and published by the Bureau of Foreign and Domestic Commerce of the Department of Commerce from data supplied by collectors of customs as hereinafter provided. Correspondence relative to statistical reports should be addressed to the above bureau at Washington, D. C.

"Inquiries relating to statistical requirements of entries and export declarations, and the procedure of coding and forwarding these documents, should be addressed to the section of customs statistics at New York (Department of Commerce), formerly Bureau of Customs Statistics, Treasury Department.

"ART. 1133. *Shipper's export declarations.*—The kinds, quantities, and values of articles exported to foreign countries or shipped to noncontiguous territory of the United States shall be compiled from the export declaration furnished by the shipper to the collector of customs at the port of exportation, prepared on the official form (Customs Form 7525) in accordance with the instructions of T. D. 38410.

"ART. 1135. *Value of exports.*—All articles exported to foreign countries or shipped to noncontiguous territory shall be valued at their actual cost or the values which they may truly bear at the time of exportation or shipment in the ports of the United States from which they are exported or shipped, including the value of cartons, cases, crates, boxes, sacks, and coverings of any kind.

"The value stated should be the actual cost or selling price, if the goods are sold. If shipped on consignment without a sale having been made, the market value at the time of exportation in the ports of the United States from which exported should be stated.

"Freight and other charges from the port of departure in the United States to the place of destination in the foreign country or noncontiguous territory to which shipped must not be included in the export value.

"ART. 1137. *Country of destination of exports.*—If the country of ultimate destination of the commodities exported is different from that for which the vessel or car clears or departs, collectors will require exporters and shippers or their agents to state in the shippers' declarations as the country of ultimate destination the country to which the commodities are sold or destined for a market.

"Special care should be taken to state the final destination of goods shipped through Canada to Europe and of goods to be transshipped in the United Kingdom, the Netherlands, Germany, and France to other countires.

"ART. 1138. *Fractions in quantities and values.*—In the expression of values in export declarations and statistical copies of entries, frac-

tions of a dollar less than 50 cents will be ignored and fractions of 50 cents or upward will be counted as one dollar. A like rule will apply to fractions of weight, measure, and tonnage.

"ART. 1140. *Description of articles exported.*—The description of merchandise in export declarations must be stated in specific and not in general terms. Such designations as 'fruits,' 'provisions,' 'groceries,' 'canned goods,' 'hardware,' 'machinery,' or any other general term must not be used, but the articles should be described in sufficient detail to permit of their classification under the proper classes of export Schedule B. On the other hand, the description in the declaration should not be in the detail of the invoice, enumerating the various kinds and grades of similar articles, which would necessitate a laborious condensation into the official export classification, but should be a recapitulation of the articles contained in the shipment, with total quantity and value of each kind of article.

"The kinds of packages, boxes, barrels, bales, etc., must be specified, with quantities in the unit stated in Schedule B, in net weight where required, exclusive of the weight of barrels, boxes, or other bulky coverings and of salt or pickle in the case of salted or pickled fish and meats."

To assist shippers of electrical merchandise in the preparation of their Shipper's Export Declarations, the Electrical Equipment Division of the Bureau of Foreign and Domestic Commerce has prepared the ensuing glossary of electrical terms, showing in what class of the schedule of exports the various articles should properly appear. The classifications for electrical merchandise are listed in the publication, Statistical Classification of Domestic Commodities Exported from the United States (Schedule B), effective January 1, 1928.

In addition, the glossary contains a second set of listings by classes, showing the various numbered classifications and what material is contained in each.

The primary object of this work is to assist the American electrical industry in correctly indicating electrical materials on the export declaration forms that the export statistics compiled by the Department of Commerce from these declarations will reflect the true extent and kind of goods exported. The use already made of this glossary has had a marked effect in reducing the miscellaneous export classification "Electrical goods, n. e. s. (not elsewhere specified)," and if shippers will continue to follow carefully the terms and instructions shown herein the accuracy of the figures showing the exports of their particular product will be insured.

INSTRUCTIONS TO EXPORTERS

In all cases when making out a Shipper's Export Declaration the shippers should use this glossary and *determine the proper class* under which each item of merchandise listed falls and *enter the numbers in the column headed "Class No."* This is of vital importance and will insure that our exports will be classified exactly as desired by manufacturers and in a uniform manner.

When complete machines or equipment units are so large that they are sent out in more than one shipment, the Shipper's Export Declaration for all shipments *except the last* should show only the

value of the portion of the machinery or units actually exported at the time, and the quantity column should be left blank. A statement as follows should be made on each of these declarations after the description of the shipment:

"This declaration covers assembly parts for complete apparatus for which declaration(s) was (were) made on (dates). Unit numbers will be recorded on the final declaration."

Unit numbers will be recorded on the *final* declaration and on it only. On the final declaration the number of machines or units must be put in the quantity column, and a statement as follows should be made after the description of the shipment:

"This declaration covers assembly parts for complete apparatus for which declaration(s) was (were) made on (dates). This is the declaration for the *final* shipment."

Examples of Shipper's Export Declarations are shown on the following three pages.

For the Department of Commerce:

MARSHALL T. JONES,
Chief, Electrical Equipment Division.

Subcommittee of Policy Committee, National Electrical Manufacturers' Association, organized to confer with the Department of Commerce on export and import statistics:

JOS. MCELROY, 3d, *Chairman.*
H. S. REIZENSTEIN.
H. C. MAHER.

WASHINGTON, *January 3, 1928.*

U. S. TREASURY DEPARTMENT Customs Form 7525 T. D. 38419 C. D., June 25-38

No. _____

This space for use of Customs

UNITED STATES CUSTOMS SERVICE

☞ Read carefully the instructions on back to avoid delay at shipping point

SHIPPER'S EXPORT DECLARATION

OF SHIPMENTS TO FOREIGN COUNTRIES OR NONCONTIGUOUS TERRITORIES OF THE U. S.

☞ Clearance will not be granted until shipper's declaration has been filed with the Collector of Customs.
(Declarations should be typewritten or prepared in ink; pencil is not permissible.)

This space for use of _____

No. _____

(Coin No. Dist.) (Port.)

Goods shipped by Westinghouse Elec. & Manufacturing Co. (Name of actual shipper.)

Address East Pittsburgh (Number.) (Street.) Penna. (City.) (State.) For account of Shipper

Address _____ (Number.) (Street.) (City.) (State.) From East Pittsburgh (Place of original shipment.)

Via P.R.R. (Carrier from interior point, if any.) For Shipment on the American Legion (U.S.) (Name of carrier. If vessel, give name, motive power, and flag if known.)

From New York (U. S. Customs port of exportation if known.) To ultimate foreign destination of goods Buenos Aires (City.) Argentina (Country.)

Marks and numbers.	Number and kind of packages, e. g., 17 crates, 40 boxes, 50 cases, 75 bags, 50 barrels, etc.	COMMODITY. Describe the articles fully, as canned pork, printed cotton cloth, printing presses, apples, etc. General terms such as machinery, dry goods, machinery, fruits, etc., will not be accepted. (See instructions on back, par. 2.)	Class No., Schedule B.	Quantity in standard export units, as pounds, tons (of 2,240 pounds), gallons, yards, bushels, barrels, etc.	Value at time and place of shipment. U. S. Products, including foreign goods altered or manufactured in the United States. Whole dollars (no cents).	Value at time and place of shipment. Foreign Products in same condition as imported. Whole dollars (no cents).
W.E.I.Co.	10 boxes	Alternating Current				
3167-3176		Motors 10 HP	7042	10	$2230	
BAIRES						
W.E.I.Co.	5 crates	Distributing Transformers				
3177-3181		10 KVA	7022	10	2500	
BAIRES						
W.E.I.Co.	2 boxes	Switchboard (2 panels)				
3182-3183			7051	2	800	
BAIRES						
		Waybill or manifest No. _____ 192_		TOTAL, $	$5530	

I, the undersigned, solemnly and truly declare that the above statement is a complete, just, and true account of all merchandise shipped by the party named; on board the vessel, car, or vehicle; and to the place or country named above, and that the description and quantity of each article is truly stated and that the value thereof are the actual selling prices or true market values at the time and place of shipment for exportation.

Sworn and subscribed to before me

on Jan. 5 192 8

J. M. Brown (Acting Deputy Collector, notary public, etc. See par. 3 on back.)

(Signature) S. E. Marks

(Capacity) Shipper (Member of firm, secretary, agent, etc.)

(Address) East Pittsburgh, Pa.

USUAL FORM OF SHIPPER'S EXPORT DECLARATION

U. S. TREASURY DEPARTMENT Customs Form 7525 T. D. 38419 C. D., June 25-38

No. _____

This space for use of Customs

UNITED STATES CUSTOMS SERVICE

☞ Read carefully the instructions on back to avoid delay at shipping point

SHIPPER'S EXPORT DECLARATION

OF SHIPMENTS TO FOREIGN COUNTRIES OR NONCONTIGUOUS TERRITORIES OF THE U. S.

☞ Clearance will not be granted until shipper's declaration has been filed with the Collector of Customs.
(Declarations should be typewritten or prepared in ink; pencil is not permissible.)

This space for use of _____

No. _____

(Coin No. Dist.) (Port.)

Goods shipped by Westinghouse Elec. & Manufacturing Co. (Name of actual shipper.)

Address East Pittsburgh (Number.) (Street.) Penna. (City.) (State.) For account of Shipper

Address _____ (Number.) (Street.) (City.) (State.) From Same (Place of original shipment.)

Via P.R.R. (Carrier from interior point, if any.) For Shipment on the Empress of Russia (British) (Name of carrier. If vessel, give name, motive power, and flag if known.)

From Seattle (U. S. Customs port of exportation if known.) To ultimate foreign destination of goods Kobe, Japan (City.) (Country.)

Marks and numbers.	Number and kind of packages, e. g., 17 crates, 40 boxes, 50 cases, 75 bags, 50 barrels, etc.	COMMODITY. Describe the articles fully, as canned pork, printed cotton cloth, printing presses, apples, etc. General terms such as machinery, dry goods, machinery, fruits, etc., will not be accepted. (See instructions on back, par. 2.)	Class No., Schedule B.	Quantity in standard export units, as pounds, tons (of 2,240 pounds), gallons, yards, bushels, barrels, etc.	Value at time and place of shipment. U. S. Products, including foreign goods altered or manufactured in the United States. Whole dollars (no cents).	Value at time and place of shipment. Foreign Products in same condition as imported. Whole dollars (no cents).
TAK						
1620	5 boxes	Assembly Parts				
KOBE	6 crates	for 14000 Kva Alternating	7006		$15000	
		Current Generators.				
		This declaration covers assembly parts for complete apparatus for which declaration(s) was (were) made on (dates). Unit numbers will be recorded on the final declaration.				
		Waybill or manifest No. _____ 192_		TOTAL, $	$15000	

I, the undersigned, solemnly and truly declare that the above statement is a complete, just, and true account of all merchandise shipped by the party named, on board the vessel, car, or vehicle; and to the place or country named above; and that the description and quantity of each article is truly stated and that the value thereof are the actual selling prices or true market values at the time and place of shipment for exportation.

Sworn and subscribed to before me

on Jan. 4 192 8

J. M. Brown (Acting Deputy Collector, notary public, etc. See par. on back.)

(Signature) S. E. Marks

(Capacity) Shipper (Member of firm, secretary, agent, etc.)

(Address) East Pittsburgh, Pa.

SHIPPER'S EXPORT DECLARATION GOVERNING SPECIAL CASE WHERE PARTS OF A SINGLE UNIT ARE SHIPPED AT DIFFERENT TIMES, ANY SHIPMENT EXCEPT FINAL

U. S. TREASURY DEPARTMENT
CUSTOMS FORM 7525
T. D. 38410 C. D., Form 25-B

No. _____

This space for use of Customs

UNITED STATES CUSTOMS SERVICE

Read carefully the instructions on back to avoid delay at shipping point

SHIPPER'S EXPORT DECLARATION

OF SHIPMENTS TO FOREIGN COUNTRIES OR NONCONTIGUOUS TERRITORIES OF THE U. S.

Clearance will not be granted until shipper's declaration has been filed with the Collector of Customs.

(Declarations should be typewritten or prepared in ink; pencil is not permissible.)

This space for use of Customs

No. _____

(Code No. Dist.) (Port.)

Goods shipped by Westinghouse Elec. & Manufacturing Co.
(Name of actual shipper.)

Address East Pittsburgh (Number.) (Street.) Penna (City.) (State.) For account of Shipper

Address _____ (Number.) (Street.) _____ (City.) _____ (State.) From Same (Place of original shipment.)

Via P.R.R. (Carrier from interior point, if any.) For Shipment on the Empress of India (British) (Name of carrier. If vessel, give name, motive power, and flag if known.)

From Seattle (U. S. Customs port of exportation if known.) To ultimate foreign destination of goods Kobe, Japan (City.) (Country.)

Marks and numbers.	Number and kind of packages, e. g., 17 crates, 40 boxes, 25 cases, 75 bags, 50 barrels, etc.	COMMODITY. Describe the articles fully, as named port, printed cotton cloth, printing presses, oysters, etc. General terms such as sheets, dry goods, machinery, fruits, etc., will not be accepted. (See instructions on back, par. 2.)	Class No., Schedule B.	Quantity in standard export unit to be procured, gross (if 2,240 pounds), gallons, yards, bushels, barrels, etc.	Value at time and place of shipment. U. S. Products, including foreign goods altered or enhanced in value in the United States. Write dash n (no cents).	Foreign Products in same condition as imported.
TAN						
1630	10 boxes	Assembly parts for				
KOBE	2 crates	14000 Kva Alternating	7006	1	$18000	
		Current Generators				
		(This declaration covers assembly parts for complete apparatus for which declaration(s) was (were) made on (dates). This is the declaration for the final shipment.				

Terms appearing on declaration	Class No.	Unit of quantity
Batteries, flash-light	7016	No.
Batteries, galvanic and faradic	7075	
Batteries, primary, wet-cell	7017	No.
Batteries, radio, dry	7017	No.
Batteries, storage	7018	No.
Batteries, storage, plates for (see note under storage-battery plates).	7018	No.
Battery chargers and sets under 15 amperes	7028	No.
Battery-charging motor-generating sets of more than 15-ampere rating.	7029	No.
Battery-charging panels	7031	No.
Battery-charging sets of more than 15-ampere rating	7029	No.
Battery-charging switchboards	7031	No.
Battery eliminators (radio)	7080	
Battery jars, glass	5292	Lb.
Battery jars, rubber	2052	Lb.
Battery switches	7079	
Battery type, electric mining and industrial locomotive	7046	No.
Battery zincs	6589	Lb.
Bayonet immersion water heaters	7074	No.
Bayonet sockets	7095	No.
Bearings for generators	7009	
Bearings for motors	7055	
Bell-ringing transformers	7089	
Bells, electric	7089	
Binding posts	7079	
Blasting sets, electric	7092	
Bonding sleeves	6425	Lb.
Bonds	6425	Lb.
Bonds, rail	6425	Lb.
Bowls, glass, opal and etched	5261	Lb.
Boxes, floor, fuse, service, switch and line junction	7094	Lb.
Boxes, telephone, distributing, protected and unprotected	7087	
Braces, cross-arm	7098	
Brackets, bus-bar	7098	
Brackets, telephone	7087	
Broadcasting apparatus	7076	
Broilers	7073	No.
Brushes, carbon, for motors and generators	5481	Lb.
Buffing motors	7040	No.
Bulbs, rectifier, of less than 15-ampere rating	7028	No.
Bulbs, rectifier, of more than 15-ampere rating	7029	No.
Burglar alarms	7089	
Bus-bar brackets, clamps, supports, and terminals	7098	
Bushings, porcelain, entrance, floor, roof, wall	5314 5315	Lb.
Buzzers, electric	7089	
Cabinets, switch	7094	Lb.
Cable, aluminum; aluminum, steel-core	6309	
Cable anchors	7098	
Cable, bare copper	6425	Lb.
Cable, insulated copper, annunciator, armored, lead-covered	6426	Lb.
Cable, insulated copper, all classes and types	6426	Lb.
Cable, insulated, iron or steel	6088	Lb.
Cable, telephone	6426	Lb.
Calls, carriage	7089	
Canopy switches	7095	No.
Carbon, brushes for mortors and generators	5481	Lb.
Carbon circuit breakers	7033	No.
Carbon electrodes for electric furnaces	5480	Lb.
Carbon filament lamps	7065	No.
Carbon products, other (see also class 5480)	5481	Lb.
Carbons; arc-lamp, battery	5481	Lb.
Car lighting panels	7031	No.

Terms appearing on declaration	Class No.	Unit of quantity
Carriage calls	7089	
Cartridge-type heaters	7074	No.
Car-type circuit breakers	7033	No.
Cases, flash-light	7066	No.
Catenary hangers	7098	
Ceiling fans	7061	No.
Ceiling suspensions	7096	
Celluloid manufactures	9820	Lb.
Celluloid sheets, rods, and tubes	9820	Lb.
Chafing dishes	7073	No.
Changers, pole	7087	
Chargers, battery, less than 15 amperes	7028	No.
Charging plugs and receptacles	7098	
Charging sets, battery, of more than 15-ampere rating	7029	No.
Chimes, electric	7099	
Choke coils	7039	No.
Chucks, trolley wire	7098	
Cigar lighters	7073	No.
Circuit-breaker, oil	5038	Gal.
Circuit breakers, carbon, car type, and oil	7033	No.
Clamps, ground (radio)	7080	
Clamping bars	7098	
Clamp pins	7098	
Clamps, ground and cable	7098	
Cleaners, vacuum, household electric	7069	No.
Cleats, porcelain	5314	Lb.
Cloth cutters	7040	No.
Cloth, insulating, treated and untreated	7093	Lb.
Coffee percolators	7073	No.
Coffee urn heaters	7073	No.
Coil mountings (radio)	7079	
Coil-testing equipment	7038	
Coils, armature and field for generators	7009	
Coils, armature and field for motors	7055	
Coils, balance and safety	7024	No.
Coils, choke	7039	No.
Coils, induction, heat, and repeating, telephone	7087	
Coils, induction, vibrating	7075	
Coils, loading and trip	7099	
Coils, reactance	7039	No.
Coils, tuning (radio)	7079	
Commercial lighting fixtures	7096	
Common battery (C. B.) telephone instruments	7083	No.
Components (radio)	7079	
Compounds, insulating	7093	Lb.
Condenser oil	5038	Gal.
Condensers (radio)	7079	
Condensers, rotary and synchronous, under 2,000 K. V. A.	7005	No.
Condensers, rotary and synchronous, 2,000 K. V. A. and over	7006	No.
Condensers, static	7099	
Condensers, steam; barometric, ejector, jet, and surface	7135	Lb.
Condensers, telephone	7087	
Conduit fittings and bushings	7094	Lb.
Conduit, interior, nonmetallic	7099	
Conduit, metal	7094	Lb.
Conduit, underground fiber	7099	
Connection boxes, metal	7094	Lb.
Connector lugs	7098	
Connectors	7098	
Constant current regulators	7024	No.
Control desks and panels	7031	No.
Control equipment, electric railway and vehicle	7049	
Control equipment, push-button, remote	7048	
Controllers, drum, electric railway and vehicle	7049	

Terms appearing on declaration	Class No.	Unit of quantity
Controllers, flat rate	7038	
Controlling equipment, electric railway and vehicle	7049	
Controlling equipment, industrial motors	7048	
Control switches (switchboard)	7099	
Converters, synchronous and rotary	7029	No.
Cookers, fireless	7072	No.
Cooking ranges	7072	No.
Copper-clad steel wire	6425	Lb.
Copper terminals	7098	
Copper tube connectors	7098	
Copper wire, bare	6425	Lb.
Cords, receiver, switchboard	6426	Lb.
Crooks, lighting	7097	
Cross-arm braces	7098	
Crystals (radio) and mountings	7079	
Curling irons	7073	No.
Current limiters	7038	
Current limiting reactors	7024	No.
Current regulators, automatic, for electric furnaces	7074	No.
Current transformers	7023	No.
Cut-outs, interior	7034	No.
Cut-outs, primary	7033	No.
Cutters, cloth	7040	No.
Demand meters	7035	No.
Dental engines	7040	No.
Desk fans	7061	No.
Desk stands	7087	
Desks, control	7031	No.
Detector tubes	7078	No.
Detectors, ground	7038	
Dials (radio)	7079	
Direct-current generators under 500 kilowatts	7001	No.
Direct-current generators, 500 kilowatts and over	7002	No.
Direct-current motors (see classes 7040, 7041, 7042, 7043, and 7044 under class index).	------	No.
Discharge resisters	7039	No.
Disconnecting switches	7033	No.
Dishwashers	7070	No.
Disk immersion water heaters	7073	No.
Disk stoves	7073	No.
Distributing boxes, telephone, protected and unprotected	7087	
Distribution transformers, less than 500 K. V. A	7022	No.
Domestic bake ovens and ranges	7072	No.
Door openers, electric	7098	
Drills, electric	7050	No.
Drink mixers, electric	7070	No.
Drum controllers and switches, except railway and vehicles	7048	
Drum controllers, electric railway and vehicle	7049	
Dry primary batteries, except flash-light	7017	No.
Dryers, hair	7070	No.
Electric furnace carbon electrodes	5480	Lb.
Ears, trolley	7098	
Electrolytic lightning arresters	7039	No.
Elevators, electric	7245	No.
Eliminators, battery (radio)	7080	
Enameled copper wire	6426	Lb.
Engine heaters, automobile	7073	No.
Exhaust fans up to 16 inches diameter	7061	No.
Expulsion type fuse blocks	7034	No.
Fans, electric, ceiling, desk, gyrating, exhaust, up to 16 inches diameter	7061	No.
Faradic batteries	7075	
Farm lighting outfits	7015	No.
Faucet-type water heaters	7073	No.

Terms appearing on declaration	Class No.	Unit of quantity
Fault localizers	7038	
Feed-wire insulators	5314	Lb.
	5315	Lb.
Feeder clamps, ears, and suspensions	7098	
Feeder panels	7031	No.
Feeder switches	7033	No.
Feeder-tap insulators and supports	5314	Lb.
	5315	Lb.
Feeder voltage regulators	7024	No.
Fiber conduit	7099	
Filaments	7099	
Fire alarms	7089	
Fireless cookers	7072	No.
Flaming arc lamps	7065	No.
Flashers, sign	7099	
Flash-light batteries	7016	No.
Flash-lights, not including incandescent bulbs, for which see classes 7064 and 7065	7066	No.
Flatirons, electric	7071	No.
Flat-rate controllers	7038	
Flexible approaches	7098	
Float switches	7048	
Floodlights	7067	No.
Floor boxes	7094	Lb.
Floor bushings	5315	Lb.
Floor tubes	5314	Lb.
Foot candle meters	7038	
Fractional horsepower motors (see classes 7040 and 7041 under class index)	------	No.
Frequency changers	7029	No.
Frequency meters (see classes 7036 and 7037 under class index)	------	
Friction tape	2084	Lb.
Frogs, trolley	7098	
Frying kettles	7073	No.
Furnace, electric carbon electrodes	5480	Lb.
Furnaces, muffle and tube, electric	7074	No.
Fuse blocks, inclosed and expulsion types	7034	No.
Fuse holders	7034	No.
Fuse panels	7031	No.
Fuse ribbon, alloy	6991	
Fuse wire, alloy	6991	
Fuse wire, aluminum	6309	
Fuses, inclosed battery supply, cartridge, link, and plug	7034	No.
Fuses, telephone	7087	
Galvanic batteries	7075	
Galvanized wire	6082	Lb.
Generator, armatures, armature coils, bearings, field coils; renewal, repair, and spare parts	7009	
Generator panels	7031	No.
Generators, alternating current, under 2,000 K. V. A	7005	No.
Generators, alternating current, 2,000 K. V. A. and over	7006	No.
Generators, auto	7092	
Generators, direct-current, under 500 kilowatts	7001	No.
Generators, direct-current, 500 kilowatts and over	7002	No.
Generators, hand, telephone	7087	
Generators, railway coach lighting	7001	No.
Generators, telephone ringing	7087	
Glassware, electrical, except for lighting	5292	Lb.
Globes, glass ball	5261	Lb.
Glow meters	7038	
Goosenecks	7097	
Graphic meters	7037	No.
Grid leaks (radio)	7079	
Griddles	7073	No.

Terms appearing on declaration	Class No.	Unit of quantity
Grills	7073	No.
Grinders, electric	7050	No.
Grinding motors	7042	No.
Ground clamps (radio)	7080	
Ground detectors	7038	
Gyrating fans	7061	No.
Hair clippers, electric	7040	No.
Hair dryers, electric	7070	No.
Half-strain ears	7098	
Hammers, electric	7050	No.
Hanger clamps	7098	
Hangers, cable	7098	
Harmonic analyzers	7038	
Headlight turbine sets, locomotive	7007	No.
Headlights, electric	7067	No.
Headsets (radio)	7080	
Heat coils	7087	
Heaters, air, automobile engine, coffee urn, disk immersion, reflector, water.	7073	No.
Heaters, water, cartridge, immersion, metal pattern plate, oven, space, steel clad.	7074	No.
Home lighting fixtures	7096	
Home lighting plants	7015	No.
Hoods, socket, street	7097	
Horns, electric	7089	
Hospital signal equipment, electric	7089	
Hotel toasters and other appliances	7074	No.
Hot tables, electric	7074	No.
Household irons	7071	No.
Household refrigerators, electric	7651	No.
Ice cream cabinets	7651	No.
Immersion water heaters, bayonet	7074	No.
Impulse gaps	7039	No.
Incandescent metal filament lamps	7064	No.
Indicating instruments, electrical ampere, volt, frequency, power factor, and watt.	7036	No.
Indicators, lamp	7031	No.
Individual lighting sets	7015	No.
Induction coils, telephone	7087	
Induction coils, vibrating	7075	
Induction-feeder voltage regulators	7024	No.
Industrial electric furnaces and ovens, including automatic current regulators.	7074	No.
Industrial lighting fixtures	7096	
Industrial locomotives, electric	7046	No.
Instruments, telegraph	7081	
Instrument transformers	7023	No.
Insulated copper wire and cable	6426	Lb.
Insulated iron or steel wire and cable	6088	Lb.
Insulating material	7093	Lb.
Insulating oils	5038	Gal.
Insulation-testing equipment	7038	
Insulator pins	7098	
Insulators, composition, strain (composition), strain (wooden)	7098	
Insulators, glass	5292	Lb.
Insulators, porcelain; feed wire, feeder-tap supports, bus type, strain	5314 5315	Lb.
Iron-clad switchboards	7031	No.
Iron wire, plain	6081	Lb.
Ironing machines, electrically driven	7070	No.
Irons, curling, waffle	7073	No.
Irons, household, laundry, tailors, and travelers	7071	No.
Jacks (radio)	7079	
Jacks, telephone	7087	

Terms appearing on declaration	Class No.	Unit of quantity
Jars, glass, battery	5292	Lb.
Jars, rubber, battery	2052	Lb.
Junction boxes	7094	Lb.
Kits (radio)	7079	
Knife switches, 10 amperes and less	7095	No.
Knife switches, over 10 amperes	7033	No.
Knockdown sets	7079	
Lamps, arc, carbon filament and others, excluding incandescent metal filament.	7065	No.
Lamp brackets	7097	
Lamp caps, telephone	7087	
Lamp indicators	7031	No.
Lamps, metal filament, auto and other	7064	No.
Lamps, portable and table	7096	
Lamp shades, glass	5261	Lb.
Lamp shades, metal	7096	
Lamp sockets	7095	No.
Laundry irons	7071	No.
Letters, sign	7099	
Lifting magnets	7099	
Lighting equipment for automobiles, not including bulbs and lamps.	7092	
Lighting fixtures, globes and shades	5261	Lb.
Lighting fixtures, interior, commercial, home, and industrial	7096	
Lighting fixtures, street	7097	
Lightning arresters	7039	No.
Lightning-arrester oils	5038	Gal.
Lightning arresters (radio)	7080	
Line junction boxes	7094	Lb.
Line material, n. e. s.	7098	
Line section switches	7033	No.
Loading coils	7099	
Locomotives, electric mining and industrial	7046	No.
Locomotives, electric railway	7045	No.
Locomotive headlight turbine sets	7007	No.
Loop aerials	7080	
Loud-speakers and units (radio)	7080	
Luminous radiators	7073	No.
Magnet chargers	7099	
Magnet wire	6426	Lb.
Magneto telephones	7083	No.
Magnetos	7092	
Magnetos, telephone	7087	
Magnets, lifting	7099	
Magnets, permanent	7099	
Mantel luminous radiators	7073	No.
Massage vibrators, electric	7070	No.
Mechanical drive turbines	7113	No.
Mercury rectifiers of more than 15-ampere rating	7029	No.
Message register meters	7087	
Metal conduit	7094	Lb.
Metal filament, incandescent lamps	7064	No.
Metal molding, electrical	7094	Lb.
Metal pattern plate heaters	7074	No.
Metal poles. (See complete Schedule B.)		
Metallic flame, arc lamps	7065	No.
Meter houses	7031	No.
Metering panel boards	7031	No.
Meters, ampere-hour, demand, and watt-hour	7035	No.
Meters, message, register	7087	
Meters, testing. (See classes 7036, 7037, and 7038 under class index.)		
Meters, Wheatstone bridge	7038	
Mica insulation	5512	Lb.

Terms appearing on declaration	Class No.	Unit of quantity
Microphones	7076	
Mine (battery) lamps	7066	No.
Mining locomotives, electric	7046	No.
Mixers, drink, electric	7070	No.
Modulating tubes	7078	No.
Molding, metal, electrical	7094	Lb.
Motor connection boxes	7094	Lb.
Motor controllers, except railway and vehicle	7048	
Motor-driven devices except tools	7070	No.
Motor generators	7029	No.
Motor generator battery charging sets of less than 15-ampere rating.	7028	No.
Motor starters except railway and vehicle	7048	
Motor trucks, electric, station and warehouse	7047	No.
Motors; armatures, armature coils, bearings, field coils; renewal, repair, and spare parts.	7055	
Motors, auto starting	7092	
Motors. (See classes 7040, 7041, 7042, 7043, and 7044 under class index.)		No.
Mountings, coil (radio)	7079	
Mouthpieces, telephone	7087	
Moving-coil regulators	7024	No.
Muffle furnaces, electric	7074	No.
Multiple street hood bodies	7097	
Multiple unit controls	7049	
Nonmetallic conduit	7099	
Oil, circuit breaker, condenser, insulating, lightning arrester, and transformer.	5038	Gal.
Oil-circuit breakers	7033	No.
Oil drying and purifying outfits	7024	No.
Oil-testing cups	7099	
Outlet boxes	7094	Lb.
Ovens, domestic	7072	No.
Oven heaters	7074	No.
Ovens, not domestic	7074	No.
Pads, warming	7073	No.
Paints, insulating	7093	Lb.
Panel boards	7031	No.
Panels, arc welding, battery charging, car lighting, control, feeder, fuse, generator, switchboard, voltage regulator.	7031	No.
Panels (radio)	7079	
Paper, insulating, treated and untreated	7093	Lb.
Pens, scorching	7099	
Percolators, coffee	7073	No.
Permanent magnets	7099	
Pickups, electric (radio)	7080	
Pins, insulator	7098	
Planers, electric	7050	No.
Plants, portable electric and home lighting	7015	No.
Plants, wind-driven electric	7099	
Plate heaters, metal pattern	7074	No.
Plugs	7095	No.
Plugs (radio)	7080	
Plugs, telephone	7087	
Pole changers, telephone	7087	
Poles, metal. (See complete Schedule B.)		
Poles, wood; light, electric, telegraph, trolley	4034	No.
Porcelain, electrical for less than 6,600 volts	5314	Lb.
Porcelain, electrical for 6,600 volts and over	5315	Lb.
Portable electric plants	7015	No.
Portable electric tools. (See also classes 7040, 7041, and 7042 under class index.)	7050	No.
Portable lamps	7096	
Portable testing outfits	7038	

Terms appearing on declaration	Class No.	Unit of quantity
Posts, binding	7079	
Posts, electric lighting	7097	
Potentiometers	7038	
Potentiometers (radio)	7079	
Pot heads, power cable	7099	
Pot heads, telephone cable	7087	
Pots, babbitt and solder, electric	7074	No.
Power factor meters. (See classes 7036 and 7037, under class index.)		
Power transformers, 500 K. V. A. and over	7021	No.
Primary batteries except flashlight	7017	No.
Projectors, except motion-picture machines, for which see class 9121.	7067	No.
Protectors and mountings, telephone	7087	
Push-button control equipment	7048	
Push-button switches	7095	No.
Push buttons	7089	
Radiators, luminous	7073	No.
Radio apparatus, parts and accessories. (See classes 7076 7077, 7078, 7079, and 7080, under class index.)		
Radio dry batteries	7017	No.
Rail bonds	6425	Lb.
Railway cars, electric	7961	No.
Railway coach lighting generators and sets	7001	No.
Railway controllers	7049	
Railway locomotives, electric	7045	No.
Railway motors	7044	No.
Railway signals, switches, and attachments, electrical	7088	
Ranges, domestic	7072	No.
Reactance coil regulators	7024	No.
Reactance coils	7039	No.
Reactivators, radio tube	7080	
Reactors	7039	No.
Reactors, current limiting	7024	No.
Reamers, electric	7050	No.
Receiver cords	6426	Lb.
Receivers, telephone	7087	
Receiving-set accessories	7080	
Receiving-set components	7079	
Receiving sets (complete)	7077	No.
Receptacles	7095	No.
Recording instruments, electrical, ampere, volt, frequency, power factor, and watt.	7037	No.
Rectifier bulbs of more than 15-ampere rating	7029	No.
Rectifier, mercury of more than 15-ampere rating	7029	No.
Rectifiers and bulbs of less than 15-ampere rating	7028	No.
Rectifying tubes	7078	No.
Reducers, socket	7095	No.
Reflector heaters	7073	No.
Reflectors	7096	
Refrigerators, household electric	7651	No.
Regulating transformers	7024	No.
Regulators, automatic current for electric furnaces	7074	No.
Regulators, constant current, feeder voltage, induction feeder voltage, moving coil, reactance coil.	7024	No.
Regulators, electric temperature	7038	
Regulators, voltage, panels	7031	No.
Remote control equipment	7048	
Renewal parts except for generators, motors, and telephones	7099	
Renewal parts for generators	7009	
Renewal parts for motors	7055	
Repair parts, except for generators, motors, and telephones	7099	

Terms appearing on declaration	Class No.	Unit of quantity
Repair parts for generators	7009	
Repair parts for motors	7055	
Repeaters, telegraph	7081	
Repeaters, telephone	7087	
Repeating coils, telephone	7087	
Resistance units (radio)	7079	
Resistance wire, alloy	6991	
Resistors	7048	
Rheostats	7048	
Rheostats (radio)	7079	
Ringers, telephone	7087	
Riveters, electric	7050	No.
Rosettes	7095	
Rotary condensers under 2,000 K. V. A	7005	
Rotary condensers, 2,000 K. V. A. and over	7006	No.
Rotary converters	7029	No.
Rubber, battery jars, hard sheets, hard washers, etc	2052	Lb.
Rubber tape, Hi-voltage	2084	Lb.
Rubberized tape, insulating	2084	Lb.
Safety coils	7024	No.
Saws, electric	7050	No.
Scorching pens	7099	
Screw drivers, electric	7050	No.
Searchlights	7067	No.
Self-contained lighting outfits	7015	No.
Sending sets (radio)	7076	
Series street hood bodies	7097	
Service boxes	7094	Lb.
Set accessories (radio)	7080	
Set components (radio)	7079	
Sets, farm lighting, individual, portable electric, and home lighting.	7015	
Sets, knockdown	7079	
Sets (radio), complete	7077	No.
Sewing-machine motors	7040	No.
Shades, glass	5261	Lb.
Shades, metal	7096	
Sheets, hard rubber	2052	Lb.
Sign flashers and letters	7099	
Signals, factory, office, and hospital	7089	
Signal, railway, electric	7088	
Sleeves, bonding	6425	Lb.
Sleeving, fabric and paper	7093	Lb.
Snap switches	7095	No.
Socket adapters (radio)	7079	
Socket adjuster transformers	7024	No.
Socket reducers	7095	No.
Sockets	7095	No.
Sockets (radio)	7079	
Solder pots	7074	No.
Solderless connectors	7098	
Solenoids	7099	
Space heaters	7074	No.
Spare parts, except for generators, motors, and telephones	7099	
Spare parts for generators	7009	
Spare parts for motors	7055	
Spark plugs	7091	No.
Speed indicators, electric	7038	
Splicers	7098	
Splicing compound	7093	Lb.
Splicing ears and sleeves	7098	
Spot lights	7067	No.
Stands, desk	7087	
Starting equipment, electric railway and vehicle	7049	

Terms appearing on declaration	Class No.	Unit of quantity
Starting equipment for automobiles	7092	
Starting equipment, industrial motors	7048	
Static condenser	7099	
Station electric motor trucks	7047	No.
Steam-turbine generator sets, complete	7007	No.
Steam turbines	7113	No.
Steel-clad heaters	7074	No.
Steel wire, copper clad	6425	Lb.
Steel wire, plain	6081	Lb.
Storage batteries	7018	No.
Storage-battery plates	7018	No.
(Shipments of storage-battery plates abroad for local assembly should show the equivalent number of cells; otherwise they will be classified under No. 7099.)		
Strain ears	7098	
Street hoods	7097	
Street-lighting fixtures	7097	
Switchboards	7031	No.
Switchboards, battery charging, iron clad, panels, truck type	7031	No.
Switchboard cords	6426	Lb.
Switchboard panels except telephone	7031	No.
Switchboards, telephone; magneto, C. B. manual, C. B. mechanical, C. B. semimechanical, P. B. X.–C. B. manual, P. B. X. C. B. mechanical, and testing	7086	No.
Switch boxes and cabinets	7094	Lb.
Switch houses	7031	No.
Switches, battery (radio)	7079	
Switches, canopy, push-button, knife 10 amperes and less, snap, toggle, and tumbler.	7095	No.
Switches, disconnecting, feeder, knife over 10 amperes, line section, and time.	7033	No.
Switches, float	7048	
Switches, railway electric	7088	
Synchronous condensers under 2,000 K. V. A	7005	No.
Synchronous condensers, 2,000 K. V. A. and over	7006	No.
Synchronous converters	7029	No.
Synchronous motors. (See classes 7042 and 7043 under class index.)		No.
Synchroscopes	7038	
Table lamps	7096	
Tables, hot, electric	7074	No.
Tailors irons	7071	No.
Tampers, electric	7050	No.
Tank alarms	7089	
Tape, friction, Hi-voltage rubber, rubberized insulating	2084	Lb.
Teakettles, electric	7073	No.
Telegraph apparatus and equipment, except radio	7081	
Telegraph poles, metal. (See complete Schedule B.)		
Telegraph poles, wood	4034	No.
Telegraph transmitting (radio and wireless) apparatus	7076	
Telephone brackets	7087	
Telephone cable	6426	Lb.
Telephone equipment, except instruments and switchboards	7087	
Telephone instruments, automatic, C. B. and magneto	7083	No.
Telephone sending (radio) apparatus	7076	
Telephone switchboards	7086	No.
Telephone wire, iron, insulated	6088	Lb.
Temperature regulators, electric	7038	
Terminals (radio)	7079	
Testing apparatus. (See classes 7036, 7037, and 7038 under class index.)		
Testing outfits, portable	7038	
Therapeutic apparatus	7075	
Thermostats	7038	

Terms appearing on declaration	Class No.	Unit of quantity
Third rail, electric mining and industrial locomotives	7046	No.
Time switches	7033	No.
Toaster stoves	7073	No.
Toasters, domestic	7073	No.
Toasters, hotel	7074	No.
Toggle switches	7095	No.
Tools, portable electric. (See also classes 7040, 7041, and 7042 under class index.)	7050	No.
Toys, electric	9419	
Train-line junction boxes	7094	Lb.
Train-line receptacles	7098	
Transformers, bell ringing	7089	
Transformers, distribution less than 500 K. V. A.	7022	No.
Transformers, instrument, voltage and current	7023	No.
Transformer oils	5038	Gal.
Transformers, power, 500 K. V. A. and over	7021	No.
Transformers (radio)	7079	
Transformers, regulating and socket adjuster	7024	No.
Transmitter arms	7087	
Transmitters, telephone	7087	
Transmitting sets (radio)	7076	
Transmitting sets (radio) and parts	7076	
Transmitting tubes	7078	No.
Travelers' irons	7071	No.
Treated cloth and paper	7093	Lb.
Trickle chargers	7028	No.
Trip coils	7099	
Trolley brackets, ears, frogs, protecting armor, wire chucks, wire splicers.	7098	
Trolley poles, metal. (See complete Schedule B.)		
Trolley poles, wood	4034	No.
Trolley-type electric mining and industrial locomotives	7046	No.
Trolley wire, copper	6425	Lb.
Trucks, electric, except baggage and warehouse	7900	No.
Trucks, electric, motor, station and warehouse	7047	No.
Truck-type switchboards	7031	No.
Tube furnaces, electric	7074	No.
Tube, reactivators	7080	
Tubes, amplifying, detector, modulating, rectifying, and transmitting.	7078	No.
Tubes for X-ray machines	7075	
Tubes, other than porcelain	7093	Lb.
Tubes, porcelain, floor	5314	Lb.
	5315	Lb.
Tumbler switches	7095	No.
Tungsten wire	6233	Lb.
Tuning coils (radio)	7079	
Turbine-generator sets complete	7007	No.
Turbines, steam	7113	No.
Units, resistance (radio)	7079	
Universal motors	7040	No.
Urns, coffee, electric	7073	No.
Utility motors. (See classes 7040 and 7041 under class index.)		
Vacuum cleaners, electric, household	7069	No.
Variocouplers (radio)	7079	
Varnishes, insulating	7093	Lb.
Vibrators, massage, electric	7070	No.
Voltmeters. (See classes 7036 and 7037 under class index.)		
Voltage regulator, generator panels	7031	No.
Voltage regulator panels	7031	No.
Voltage regulators, feeder and induction feeder	7024	No.
Voltage transformers	7023	No.
Vulcanizers, electric	7074	No.

Terms appearing on declaration	Class No.	Unit of Quantity
Waffle irons	7073	No.
Warehouse electric motor trucks	7047	No.
Warming pads	7073	No.
Washers, hard rubber	2052	Lb.
Washing machines, electric	7735	No.
Water heaters	7073	No.
Water heaters, bayonet immersion	7074	No.
Watt-hour meters	7035	No.
Wattmeters. (See classes 7036 and 7037 under class index.)		
Wave traps (radio)	7080	
Weatherproof wire	6426	Lb.
Welding equipment (direct current)	7001	No.
Wet cell, primary batteries	7017	No.
Wheatstone bridges	7038	
Wind-driven electric plants	7099	
Wire alloy, resistance	6991	
Wire, aluminum; aluminum, steel core	6309	
Wire, bare, copper	6425	Lb.
Wire, copper; annunciator, armored, enameled, magnet, rubber covered, telephone, weatherproof.	6426	Lb.
Wire, copper-clad steel	6425	Lb.
Wire, copper, trolley	6425	Lb.
Wire, galvanized	6082	Lb.
Wire, insulated, copper; annunciator, copper steel, distributing frame, enameled, flame proof, magnet, rubber covered, telephone, weatherproof.	6426	Lb.
Wire, insulated iron or steel	6088	Lb.
Wire, plain iron or steel	6081	Lb.
Wire, telephone, iron, insulated	6088	Lb.
Wire, tungsten	6233	Lb.
Wireless telegraph transmitting apparatus	7076	
Wiring supplies, n. e. s.	7098	
Wood, poles	4034	No.
Woodworking tools, electric	7050	No.
X-ray machines and tubes	7075	
Zincs, battery	6589	Lb.

ARTICLES LISTED BY CLASSES

[Abbreviation n. e. s. means not elsewhere specified]

RUBBER AND MANUFACTURES

Class No.

2062. ELECTRICAL HARD-RUBBER GOODS:
- Battery jars, rubber.
- Hard-rubber sheets.
- Rubber, hard, washers, etc.

2064. RUBBER AND FRICTION TAPE:
- Friction tape.
- Hi-voltage rubber tape.
- Rubberized insulating tape.

WOOD AND MANUFACTURES

4034. TELEGRAPH, TROLLEY, AND ELECTRIC LIGHT POLES:
- Wood poles (only). For metal poles see complete Schedule B.

4299. OTHER WOOD MANUFACTURES:
- Storage battery separators.

PETROLEUM AND PRODUCTS

5038. INSULATING OR TRANSFORMER OILS:
- Circuit-breaker oil.
- Condenser oil.
- Insulating oils.
- Lightning-arrester oil.
- Transformer oil.

GLASS AND GLASS PRODUCTS

5261. GLOBES AND SHADES FOR LIGHTING FIXTURES:
- Bowls, opal and etched.
- Globes, ball.
- Lamp shades, glass.
- Shades, glass.

5292. ELECTRICAL GLASSWARE, EXCEPT FOR LIGHTING:
- Battery jars, glass.
- Glassware, electrical.
- Insulators, glass.

CLAY AND CLAY PRODUCTS

5314. ELECTRICAL PORCELAIN FOR LESS THAN 6,600 VOLTS:
- Bushings, entrance, floor, roof, and wall.
- Cleats.
- Feed-wire insulators.
- Feeder-tap insulators and supports.
- Floor tubes.
- Insulators, bus type and knob.
- Insulators, strain (porcelain).
- Tubes, porcelain.

  See also class 7034.

5315. ELECTRICAL PORCELAIN FOR 6,600 VOLTS AND OVER:
- Bushings, entrance, floor, roof and wall.
- Feed-wire insulators.
- Feeder-tap insulators and supports.
- Floor bushings.
- Floor tubes.
- Insulators, bus type.
- Insulators, strain, porcelain.
- Tubes, porcelain.

OTHER NONMETALLIC MINERALS

Class No.

5480. CARBON ELECTRODES FOR ELECTRIC FURNACES:
- Electric-furnace electrodes.

5481. OTHER CARBON PRODUCTS:
- Arc lamp carbons.
- Battery carbons.
- Brushes for generators.
- Brushes for motors.

5512. MICA AND MANUFACTURES:
- Mica insulation.

WIRE AND MANUFACTURES (IRON AND STEEL)

6081. PLAIN IRON OR STEEL WIRE.

6082. GALVANIZED WIRE.

6088. INSULATED IRON OR STEEL WIRE AND CABLE:
- Cable, insulated, iron or steel.
- Telephone wire, iron, insulated.

FERRO-ALLOYS

6233. FERROTUNGSTEN, TUNGSTEN METAL AND WIRE:
- Tungsten wire.

NONFERROUS METALS: ALUMINUM

6309. OTHER ALUMINUM MANUFACTURES:
- Aluminum fuse wire.
- Cable, aluminum.
- Wire and cable, aluminum.
- Wire and cable, aluminum, steel core.

NONFERROUS METALS: COPPER

6425. COPPER WIRE (BARE):
- Bonding sleeves.
- Bonds.
- Cable, copper.
- Copper trolley wire.
- Copper-clad steel wire.
- Rail bonds.
- Trolley wire, copper.
- Wire, copper.

6426. INSULATED COPPER WIRE AND CABLE:
- Cable, insulated, copper (all classes and types, including lead covered and armored).
- Cords, receiver.
- Cords, switchboard.
- Telephone cable.
- Wire and cable, annunciator.
- Wire and cable, armored (copper).
- Wire and cable, insulated, lead covered.
- Wire, enameled copper.
- Wire, insulated, copper steel.
- Wire, insulated, distributing frame.
- Wire, insulated, flame proof.
- Wire, insulated, magnet and annunciator.
- Wire, insulated, rubber covered.
- Wire, magnet, copper.
- Wire, rubber covered, copper.
- Wire, telephone, copper, insulated.
- Wire, weather proof, copper.

NONFERROUS METALS: ZINC

Class No.

6589. OTHER ZINC MANUFACTURES:
- Zincs, battery.

6691. OTHER METAL AND METAL COMPOSITION MANUFACTURES:
- Alloy fuse ribbon.
- Alloy fuse wire.
- Wire, alloy resistance.

ELECTRICAL MACHINERY AND APPARATUS

7001. GENERATORS, DIRECT CURRENT, UNDER 500 KILOWATTS:
- Arc-welding equipment.
- Direct-current generators, under 500 kilowatts.
- Generators, railway coach lighting.
- Railway-coach lighting sets.
- Welding equipment.

7002. GENERATORS, DIRECT CURRENT, 500 KILOWATTS AND OVER.

7005. GENERATORS, ALTERNATING CURRENT, UNDER 2,000 KILOVOLT AMPERES:
- Alternating current generators, under 2,000 K. V. A.
- Rotary condensers, under 2,000 K. V. A.
- Synchronous condensers, under 2,000 K. V. A.

7006. GENERATORS, ALTERNATING CURRENT, 2,000 KILOVOLT AMPERES AND OVER:
- Alternating current generators, 2,000 K. V. A. and over.
- Rotary condensers, 2,000 K. V. A. and over.
- Synchronous condensers, 2,000 K. V. A. and over.

7007. STEAM TURBINE GENERATOR SETS:
- Complete steam-turbine generator sets.
- Locomotive headlight turbine sets.

7009. ACCESSORIES AND PARTS FOR GENERATORS:
- Armatures for generators.
- Armature coils for generators.
- Bearings for generators.
- Field coils for generators.
- Renewal parts for geneators.
- Repair parts for generators.
- Spare parts for generators.

7015. SELF-CONTAINED LIGHTING OUTFITS:
- Farm lighting outfits.
- Individual lighting sets.
- Plants, portable electric.
- Plants, home lighting.

  For wind-driven generators see class 7891.

7016. FLASH-LIGHT BATTERIES.

7017. OTHER DRY AND WET PRIMARY BATTERIES:
- Batteries, dry cell, except flash-light.
- Batteries, wet cell.
- Radio dry batteries.
- Primary batteries except flash-light.

7018. STORAGE BATTERIES:
- Batteries, storage.
- Plates for storage batteries. (See alphabetical index.)

7021. POWER TRANSFORMERS, 500 KILOVOLT AMPERES AND OVER.

(See also class 5038.)

7022. DISTRIBUTION TRANSFORMERS LESS THAN 500 KILOVOLT AMPERES.

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7023. INSTRUMENT TRANSFORMERS:
- Current transformers.
- Instrument transformers.
- Voltage transformers.

7024. OTHER TRANSFORMERS:
- Balance coils.
- Constant-current regulators.
- Current-limiting reactors.
- Feeder voltage regulators.
- Induction feeder voltage regulators.
- Moving-coil regulators.
- Oil drying and purifying outfits.
- Reactance coil regulators.
- Regulating transformers.
- Safety coils.
- Socket adjuster transformers.

7028. BATTERY CHARGERS UNDER 15 AMPERES:
- Battery chargers and sets of less than 15 amperes.
- Bulbs, rectifier, of less than 15-ampere rating.
- Motor generator charging sets of less than 15-ampere rating.
- Rectifiers.
- Trickle chargers.

7029. RECTIFIERS, DOUBLE-CURRENT AND MOTOR GENERATORS, DYNAMOTORS, SYNCHRONOUS AND OTHER CONVERTERS:
- Battery charging sets of more than 15 amperes.
- Battery charging motor generating sets of more than 15-ampere rating.
- Bulbs, rectifier, of more than 15-amperes rating.
- Frequency changers,
- Mercury rectifiers.
- Motor generators.
- Rectifier bulbs.
- Rotary converters.
- Synchronous converters.

7031. SWITCHBOARD PANELS, EXCEPT TELEPHONE:
- Arc-welding panels.
- Battery-charging panels.
- Battery-charging switchboards.
- Car-lighting panels.
- Control desks.
- Control panels.
- Feeder panels.
- Fuse panels.
- Generator panels.
- Iron-clad switchboards.
- Lamp indicators.
- Meter houses.
- Metering panel boards.
- Panel boards.
- Panels.
- Panels, switchboard.
- Regulator panels, voltage.
- Truck-type switchboards.
- Switchboards.
- Switch houses.
- Voltage regulators, generator.

7033. SWITCHES AND CIRCUIT BREAKERS ABOVE 10 AMPERES:
- Automatic time switches.
- Carbon circuit breakers.
- Car-type circuit breakers.
- Circuit breakers.
- Cut-outs, primary.
- Disconnecting switches.
- Feeder switches.
- Knife switches over 10 amperes.
- Line-section switches.
- Oil-circuit breakers.
- Time switches.

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7034. FUSES AND FUSE BLOCKS:
Cut-outs, interior.
Expulsion type fuse blocks.
Fuse blocks.
Fuse holders.
Fuses, battery supply.
Fuses, cartridge.
Fuses, link.
Fuses, plug.
Inclosed fuse blocks.
Inclosed fuses

7035. WATT-HOUR AND OTHER MEASURING METERS:
Ampere-hour meters.
Demand meters.
Watt-hour meters.

7036. ELECTRICAL INDICATING INSTRUMENTS:
Generally, ampere, volt, frequency, power factor, and watt meters, or other electrical meters that show the instantaneous value of the unit which it measures but which make no record or summation.

7037. ELECTRICAL RECORDING INSTRUMENTS:
Generally, ampere, volt, frequency, power factor, and watt meters, or other electrical meters which record graphically the instantaneous value of the unit which it measures but which make no summation.

7038. OTHER ELECTRICAL TESTING APPARATUS:
Armature-testing equipment.
Coil-testing equipment.
Controllers, flat rate.
Current limiters.
Electric speed indicators.
Fault localizers.
Foot candle meters.
Glow meters.
Ground detectors.
Harmonic analyzers.
Insulation testing equipment.
Meters, Wheatstone bridge.
Meters, other testing.
Overload relays.
Photometers.
Portable testing outfits.
Potentiometers.
Regulators, electric temperature.
Synchroscopes.
Thermostats.

7039. LIGHTNING ARRESTERS, CHOKE COILS, REACTORS, AND OTHER POWER PROTECTIVE DEVICES:
Choke coils.
Discharge resisters.
Electrolytic lightning arresters.
Impulse gaps.
Lightning arresters.
Reactance coils.

7040. MOTORS, ½ HORSEPOWER AND UNDER:
Alternating-current motors.
Buffing motors.
Cloth cutters.
Dental engines.
Direct-current motors.
Fractional power motors.
Hair clippers, electric.
Motor-driven industrial devices (½ horsepower and under.)
Sewing-machine motors.
Universal motors.
Utility motors.

NOTE.—It has been agreed that in all cases where the motor represents the major portion of the cost of the complete apparatus the shipment should be put in class 7040, 7041, or 7042, depending on the horsepower

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7040. MOTORS, ½ HORSEPOWER AND UNDER—con.
of the motor. In case the remainder of the apparatus is the greater portion of the cost, the shipment shall be classified as shown under the machinery classification, for which see complete Schedule B.
See also class 7050.

7041. MOTORS OVER ½ HORSEPOWER AND UNDER 1 HORSEPOWER:
Alternating-current motors.
Direct-current motors.
Fractional horsepower motors.
Utility motors.
See note under 7040.

7042. STATIONARY MOTORS 1 TO 200 HORSEPOWER:
Grinding motors.
Motors, A. C. and D. C.
Sychronous motors.
Tools, portable electric. (See note under 7040.)

7043. STATIONARY MOTORS OVER 200 HORSEPOWER:
Motors, A. C. and D. C.
Sychronous motors.

7044. RAILWAY MOTORS.

7045. ELECTRIC LOCOMOTIVES, RAILWAY.

7046. ELECTRIC LOCOMOTIVES, MINING AND INDUSTRIAL:
Battery locomotives.
Trolley-type locomotives.
Third-rail-type locomotives.

7047. STATION AND WAREHOUSE ELECTRIC MOTOR TRUCKS.

7048. STARTING AND CONTROLLING EQUIPMENT, INDUSTRIAL MOTORS:
Controllers, motor.
Float switches
Drum controllers.
Drum reverse switches.
Drum-type switches.
Motor starters.
Push-button control equipment.
Remote control equipment.
Resisters.
Rheostats.

7049. STARTING AND CONTROLLING EQUIPMENT, ELECTRIC RAILWAYS AND VEHICLES:
Automatic control equipment.
Drum controllers.
Multiple-unit controls.
Railway controllers

7050. PORTABLE ELECTRIC TOOLS:
Drills, electric.
Grinders, electric.
Hammers, electric.
Planers, electric.
Reamers, electric.
Riveters, electric.
Saws, electric.
Screw drivers, electric.
Tampers, electric.
Woodworking tools, electric.

7055. ACCESSORIES AND PARTS FOR MOTORS:
Armatures for motors.
Armature coils for motors.
Bearings for motors.
Field coils for motors.
Renewal parts for motors
Repair parts for motors.
Spare parts for motors.

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7061. ELECTRIC FANS:
Ceiling fans.
Desk fans.
Exhaust fans up to 16 inches in diameter.
Fans.
Gyrating fans.

7064. INCANDESCENT METAL-FILAMENT LAMPS:
Automobile lamps.
Lamps, metal filament.

7065. OTHER ELECTRIC LAMPS:
Arc lamps.
Arc lamps, flaming.
Arc lamps, metallic flame.
Lamps, carbon filament.
Lamps, other electric.

7066. FLASH LIGHTS:
Cases, flash-light.
Flash lights.
Lamps, mine (battery).

7067. SEARCHLIGHTS AND PROJECTORS:
Flood lights.
Headlights, electric.
Projectors.
Searchlights.
Spot lights.

7069. ELECTRIC VACUUM CLEANERS:
Electric household vacuum cleaners.

7070. OTHER MOTOR-DRIVEN DEVICES, EXCEPT TOOLS:
Dishwashers.
Electrically driven ironing machines.
Electric hair dryers.
Mixers, drink.
Vibrators, massage, electric.
See also classes 7040, 7041, 7042, and 7050.

7071. ELECTRIC FLATIRONS:
Household irons.
Laundry irons.
Tailors' irons.
Travelers' irons.

7072. ELECTRIC COOKING RANGES:
Domestic bake ovens.
Domestic ranges.
Fireless cookers.
Ovens, domestic.
For hotel types see class 7074.

7073. OTHER DOMESTIC HEATING AND COOKING DEVICES:
Air heaters.
Automobile engine heaters.
Broilers.
Chafing dishes.
Cigar lighters.
Coffee percolators.
Coffee-urn heaters.
Curling irons.
Disk immersion water heaters.
Disk stoves.
Frying kettles.
Griddles.
Grills.
Heaters, coffee urn.
Heaters, disk immersion.
Hot plates.
Immersion heaters, disk.
Luminous radiators.
Mantel luminous radiators.
Pads, warming.
Percolators, coffee.
Radiators, electric.
Reflector heaters.
Teakettles.
Toasters, domestic.
Urns, coffee, electric.
Waffle irons.
Water heaters.
Water heaters, faucet type.

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7074. INDUSTRIAL ELECTRIC FURNACES AND OVENS:
Automatic current regulators for electric furnaces.
Babbitt pots.
Bake ovens, except domestic.
Bayonet, immersion water heaters.
Cartridge-type heaters.
Chocolate warmers.
Crucible furnaces.
Current regulators for arc furnaces.
Dry-type glue pots.
Drying ovens.
Electric furnaces.
Electric ovens.
Foot warmers.
Furnaces, electric.
Glue pots.
Heaters, oven type.
Heaters, space.
Heaters, steel clad.
Hot tables.
Hotel ranges.
Hotel toasters and other appliances.
Metal pattern plate heaters.
Muffle furnaces, electric.
Oven heaters.
Ovens, not domestic.
Solder pots.
Space heaters.
Steel-clad heaters.
Tables, hot.
Tube furnaces, electric.
Vulcanizers, electric.

7075. THERAPEUTIC APPARATUS, X-RAY MACHINES, GALVANIC AND FARADIC BATTERIES, ETC.:
Induction coils, vibrating.
X-ray machines and tubes.

7076. RADIO TRANSMITTING SETS AND PARTS:
Broadcasting apparatus.
Microphones.
Radio telephone sending apparatus.
Sending sets.
Transmitting sets.
Wireless telegraph transmitting apparatus.

7077. RADIO RECEIVING SETS:
Amplifier units.
Receiving sets complete.

7078. RADIO TUBES:
Amplifying tubes.
Detector tubes.
Modulating tubes.
Rectifying tubes.
Transmitting tubes.

7079. RADIO RECEIVING-SET COMPONENTS:
Battery switches.
Binding posts.
Coil mountings.
Condensers.
Radio crystals and mountings.
Dials.
Grid leaks.
Radio jacks.
Radio kits.
Knockdown sets.
Radio panels.
Radio potentiometers.
Rheostats.
Radio resistance units.
Sockets.
Socket adapters.
Radio terminals.
Transformers.
Tuning coils.
Variocouplers.
Variometers.
Other radio set components.

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7080. RADIO RECEIVING SET ACCESSORIES:
- Aerial lead-ins.
- Battery eliminators.
- Electric pickup.
- Ground clamps.
- Radio head sets.
- Radio lightning arresters.
- Loud speakers.
- Loud speaker units.
- Loop aerials.
- Radio plugs.
- Radio tube reactivators.
- Wave traps.
- Other radio receiving-set accessories.

7081. TELEGRAPH APPARATUS:
- Instruments, telegraph.
- Repeaters, telegraph.
- Telegraph equipment, except radio.

7083. TELEPHONE INSTRUMENTS:
- Telephones, automatic.
- Telephones, C. B.
- Telephones, magneto.

7086. TELEPHONE SWITCHBOARDS:
- Switchboards, telephone, magneto.
- Switchboards, telephone, C. B., manual.
- Switchboards, telephone, C. B., mechanical.
- Switchboards, telephone, C. B., semi-mechanical.
- Switchboards, telephone, P.B.X.-C.B., manual.
- Switchboards, telephone, P.B.X.-C.B., mechanical.
- Switchboards, telephone testing.

7087. OTHER TELEPHONE EQUIPMENT:
- Arms, transmitter.
- Brackets, telephone.
- Coils, repeating.
- Condensers, telephone.
- Desk stands.
- Distributing boxes, protected.
- Distributing boxes, unprotected.
- Fuses, telephone.
- Generators, hand.
- Generators, ringing.
- Heat coils.
- Induction coils, telephone.
- Jacks, telephone.
- Lamp caps.
- Magnetos, telephone.
- Meters, message, register.
- Mouthpieces, telephone.
- Plugs, telephone.
- Pole changers.
- Pot heads, telephone cable.
- Protectors, telephone.
- Protectors, mountings for.
- Receivers, telephone.
- Repeaters, telephone.
- Ringers, telephone.
- Transmitters.

7088. RAILWAY SIGNALS, SWITCHES, AND ATTACHMENTS:
- Railway signal equipment.

7089. BELLS, BUZZERS, ANNUNCIATORS, AND ALARMS:
- Alarms, burglar and fire.
- Alarms, tank.
- Annunciators.
- Bells, electric.
- Bell-ringing transformers.
- Burglar alarms.
- Buzzers, electric.
- Calls, carriage.
- Carriage calls.
- Horns, electric.
- Hospital signal equipment, electric.
- Push buttons.
- Signals, factory and office.

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7091. SPARK PLUGS.

7092. OTHER STARTING, LIGHTING, AND IGNITION EQUIPMENT:
- Auto generators.
- Auto starting equipment.
- Blasting sets, electric.
- Magnetos.

7093. INSULATING MATERIAL:
- Cloth and papers, treated.
- Cloth and papers, untreated.
- Insulating compounds.
- Paper, insulating.
- Paints and varnishes, insulating.
- Sleeving, fabric.
- Sleeving, paper.
- Splicing compound.
- Tubes, other than porcelain.
- Varnishes, insulating.

See also classes 3084 and 5512.

7094. METAL CONDUIT, OUTLET AND SWITCH BOXES:
- Conduit bushings.
- Conduit, interior, metal.
- Cut-out boxes.
- Fittings, conduit.
- Floor boxes.
- Fuse boxes.
- Line-junction boxes.
- Molding, metal.
- Motor-connection boxes.
- Service boxes.
- Switch boxes.
- Switch cabinets.
- Train-line junction boxes.

7095. SOCKETS, RECEPTACLES, AND LIGHTING SWITCHES:
- Bayonet sockets.
- Canopy switches.
- Lamp sockets.
- Plugs and receptacles.
- Push-button switches.
- Receptacles.
- Rosettes.
- Socket reducers.
- Sockets.
- Switches, knife, 10 amperes and less.
- Switches, snap.
- Switches, toggle.
- Switches, tumbler.

7096. ELECTRIC INTERIOR LIGHTING FIXTURES:
- Ceiling suspensions.
- Commercial lighting fixtures.
- Home lighting fixtures.
- Industrial lighting fixtures.
- Lamp shades, metal.
- Portable lamps.
- Reflectors.
- Table lamps.

See also class 5261.

7097. ELECTRIC STREET LIGHTING FIXTURES:
- Adjusters, socket street hood.
- Automatic cut-out hangers and reflectors.
- Crooks, lighting.
- Goosenecks.
- Lamp brackets.
- Lighting fixtures, street.
- Multiple street-hood bodies.
- Posts, electric lighting.
- Series street-hood bodies.
- Street hoods.

7098. OTHER WIRING SUPPLIES AND LINE MATERIAL
- Adjusters, cord and lamp.
- Anchor clamps.
- Anchor eyes.
- Anchor hangers.
- Anchor rods.
- Approaches for trolley rogs.
- Braces, cross-arm.

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7098. OTHER WIRING SUPPLIES AND LINE MATERIAL—Continued.
- Brackets, bus-bar.
- Bus-bar brackets.
- Bus-bar clamps.
- Bus-bar supports.
- Bus-bar terminals.
- Cable anchors.
- Catenary hangers.
- Charging plugs.
- Charging receptacles.
- Chucks, trolley wire.
- Clamp pins.
- Clamping bars.
- Clamps, cable.
- Clamps, ground.
- Connector lugs.
- Connectors.
- Copper terminals.
- Copper-tube connectors.
- Door openers, electric.
- Ears, trolley.
- Emergency splicing sleeves.
- Feeder clamps.
- Feeder ears.
- Feeder suspensions.
- Flexible approaches.
- Frogs, trolley.
- Half-strain ears.
- Hanger clamps.
- Hangers, cable.
- Insulator pins.
- Insulators, composition.
- Insulators, strain (composition).
- Insulators, strain (wooden).
- Pins, insulator.
- Solderless connectors.
- Splicers.
- Splicing ears.
- Splicing sleeves.
- Strain ears.
- Train-line receptacles.
- Trolley brackets.
- Trolley ears.
- Trolley frogs.
- Trolley protecting armor.
- Trolley-wire chuck.
- Trolley-wire splicers.

7099. OTHER ELECTRICAL APPARATUS, N. E. S.:[1]
- Coils, loading.
- Coils, trip.
- Condensers, static.
- Conduit, interior, nonmetallic.
- Conduit, underground fiber.
- Control pedestals.
- Control switches (switchboard).
- Electric chimes.
- Filaments.
- Flashers, sign.
- Letters, sign.
- Magnet chargers.
- Magnets, lifting.
- Magnets, permanent.
- Oil-testing cups.
- Potheads, power cable.
- Scorching pens.

[1] Generally speaking, all repair parts, renewals, or spares, excepting those for generator, motors, or telephone units, go into this class. (See classes 7099, 7055, and 7087.)

ELECTRICAL MACHINERY AND APPARATUS—Continued

Class No.

7099. OTHER ELECTRICAL APPARATUS, N. E. S.—Continued.
- Signs, electric.
- Solenoids.
- Wind-driven electric plants.

INDUSTRIAL MACHINERY

7113. MECHANICAL DRIVE TURBINES:
- Steam turbines.
- Turbines, steam.

7135. CONDENSERS, HEATERS, AND ACCESSORIES:
- All types of steam condensers—barometric, ejector, jet, and surface.

7245. ELEVATORS, FREIGHT AND PASSENGER:
- Electric elevators.

7651. REFRIGERATION SETS UP TO 1-TON CAPACITY:
- Electric household refrigerators.
- Ice-cream cabinets.

NOTE.—In shipping abroad for assembly, if the cabinets, compressors, coils, etc., are shipped at different times and shown on separate declarations the equivalent number of complete machines shall be arrived at by showing the number o compressors. The value of other parts shall be entered without units shown following the rule on page IV.

7735. DOMESTIC WASHING MACHINES:
- Washing machines, electric.

AUTOMOBILES AND PARTS OF

7900. ELECTRIC TRUCKS AND PASSENGER CARS.

RAILWAY CARS

7961. ELECTRIC RAILWAY.

SCIENTIFIC AND PROFESSIONAL INSTRUMENTS, APPARATUS, AND SUPPLIES

7121. PROJECTION APPARATUS, MOTION-PICTURE MACHINES.

TOYS, ATHLETIC AND SPORTING GOODS

9419. OTHER TOYS:
- Toys, electric.

MISCELLANEOUS, N. E. S.

9820. PYROXYLIN PRODUCTS, KNOWN AS CELLULOID, PYRALIN, VISCOLOID, FIBERLOID, ETC.:
- Sheets, rods, or tubes.

9821. PYROXYLIN PRODUCTS, KNOWN AS CELLULOID, PYRALIN, VISCOLOID, FIBERLOID, ETC.:
- Manufactures.

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END OF
TITLE